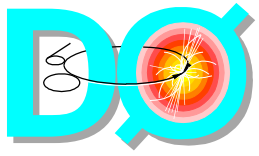


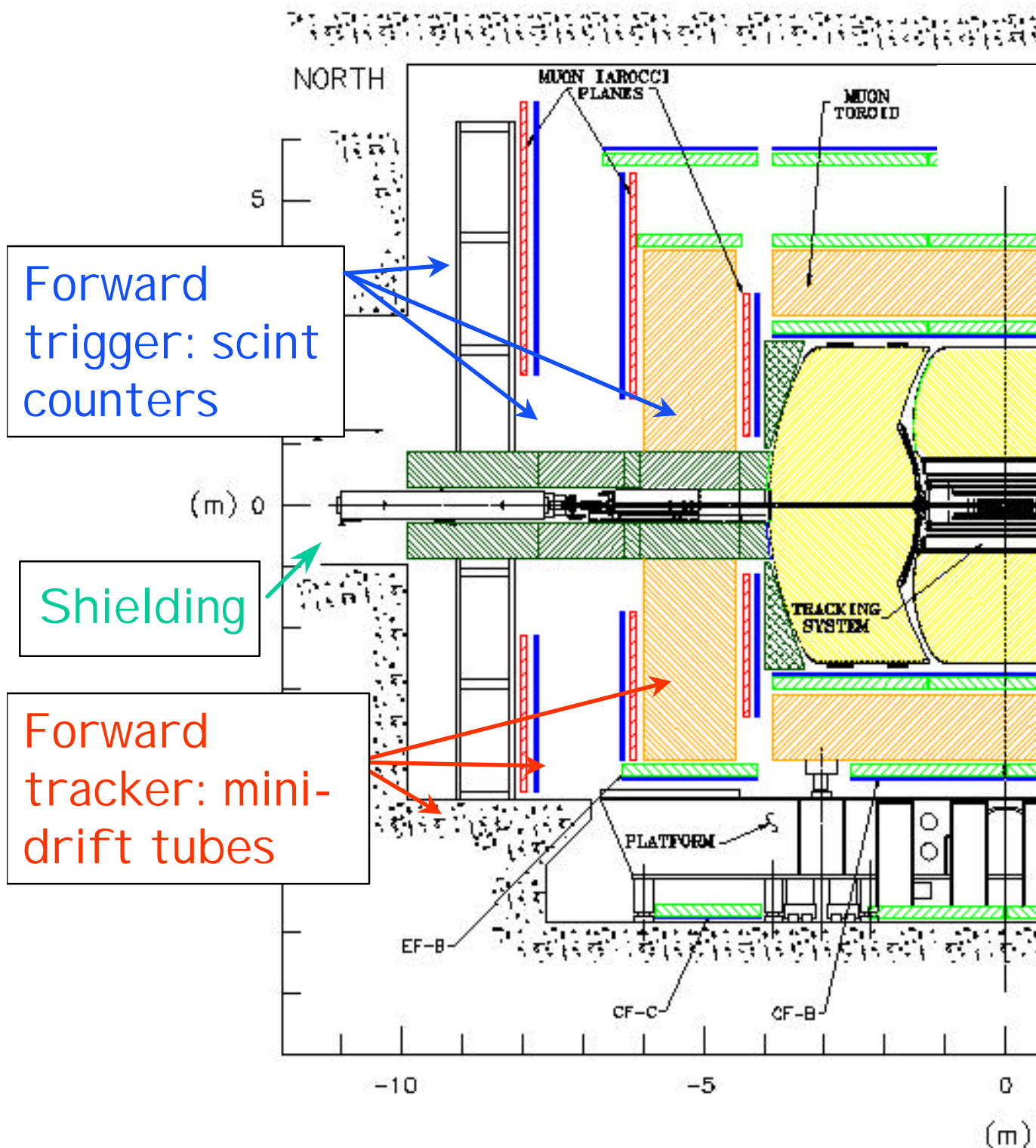
# Forward Muon System Status

Dmitri Denisov  
Fermilab  
for the  
forward muon upgrade  
group

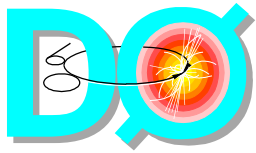
**PMG September 2 1999**



# Forward Muon Detector Upgrade

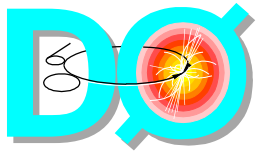


**Completely new forward muon system for Run II**



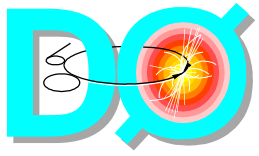
# Forward Muon Trigger System Status

- ◆ All 4608 counters are at Fermilab
- ◆ All 16 A layer octants assembled
- ◆ 15 A layer octants tested, last will be finished early next week
- ◆ First C frames are delivered, under inspection
- ◆ C layer drilling fixture production and inspection finished this week
- ◆ Start assembly of C layer octants next week
- ◆ Critical items:
  - ◆ quality of frames delivered from industry
  - ◆ availability of Fermilab techs for assembly
  - ◆ availability of IHEP visitors for assembly/tests



# Forward Muon Tracking Status

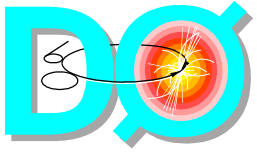
- ◆ All tubes for A layer are delivered to Fermilab: 2300 tubes
- ◆ Production rate of tubes at Dubna is steady, but below our plan
- ◆ Frames for 10 A layer octants are assembled at Lab F
- ◆ MDT tubes are installed in first frame, under inspection
- ◆ 500 tubes (4 A octants) are tested and ready for installation in Lab F
- ◆ Start octants mass assembly early October. Critical items:
  - ◆ assembly drawings
  - ◆ availability of parts: mechanical, cables, front-end electronics, gas system, etc.
  - ◆ availability of Fermilab techs
  - ◆ availability of JINR visitors for assembly and tests
  - ◆ MDT production rate/quality at JINR



# Forward Muon Schedule

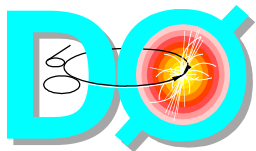
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- **Trigger scintillation counters:**
  - ◆ Within 3 weeks on schedule
  - ◆ If manpower is available, could be finished on schedule
- **Mini-drift tubes:**
  - ◆ Production at Dubna is slower, than planned
  - ◆ Octants assembly is delayed by about 3 months
  - ◆ The last mini-drift tube plane installed in August 2000 and last trigger counters plane installed in September 2000
- **Schedule uncertainty: unknown rate of MDT octants assembly and production of tubes at Dubna**



## Forward muon system manpower

- **Fermilab techs:**
  - ◆ according to schedule need 10 full time techs at Lab F. Currently have 4, so 6 more are needed
  - ◆ the only reason for this summer counters assembly rate is delay of MDT assembly
- **IHEP/JINR visitors:**
  - ◆ Participate in detectors assembly and tests as well as final octants tests
  - ◆ Currently have 2 visitors from IHEP and 2 visitors from JINR
  - ◆ In order to be on schedule we need additional 2 visitors from IHEP and 4 from JINR
- **Stronger presence of UoW, NIU, NeU, Prague group**



# Production added later HW

